



+ Feature

Accidents occur frequently when drivers fail to notice another vehicle in their blind spot during lane change. This technology provides a method to predict lane change intention of other vehicles in front of host vehicle via AI model with learning ability, and the host vehicle receives real-time warnings in advance as collision risk is high.

+ Technique

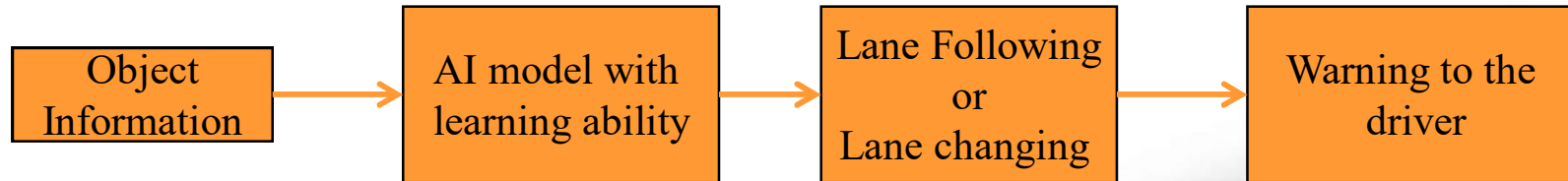
This technology provides a method to predict lane change intention of other vehicles in front of host vehicle via AI model with learning ability, and the host vehicle receives real-time warnings in advance in dangerous situations based on our system.

+ Specification

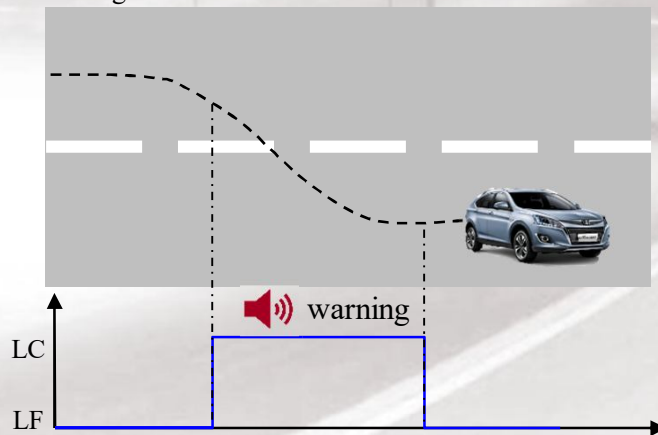
1. Host velocity < 50 KPH
2. Detection range / update rate: 40 meters for front and 4 meters for left and right with update rate > 10
3. Obstacle targets: Vehicles, motorcycles/bikes
4. Obstacle Velocity < 50 KPH
5. Driver behavior : i. Lane follow; ii. Lane change
6. Predict Accuracy > 85%



Demonstration



This technology provides a method to predict lane change or lane follow of other vehicles in front of host vehicle via historical trajectory and vehicle dynamic and warning to the driver.

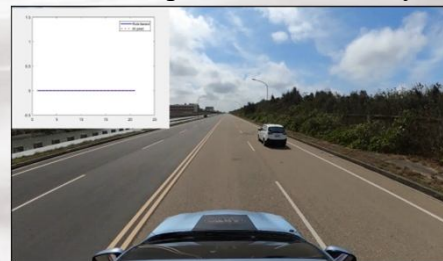


▲ Schematic illustration by lane change prediction

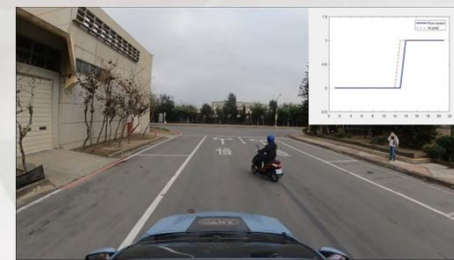
▼ Prediction accuracy of lane change

	Accuracy Rate	False Rate
Predict Results	88.53%	11.47%

The application objects of this technology include vehicles and motorcycles, with >85% prediction accuracy



Vehicle lane change predict



Motorcycle lane change predict